Impact of Climate Change on Public Health

September 23, 2004

Air Resources Board





Health Impacts of Fossil Fuels



Burning Fossil Fuels



Greenhouse Gas Emissions

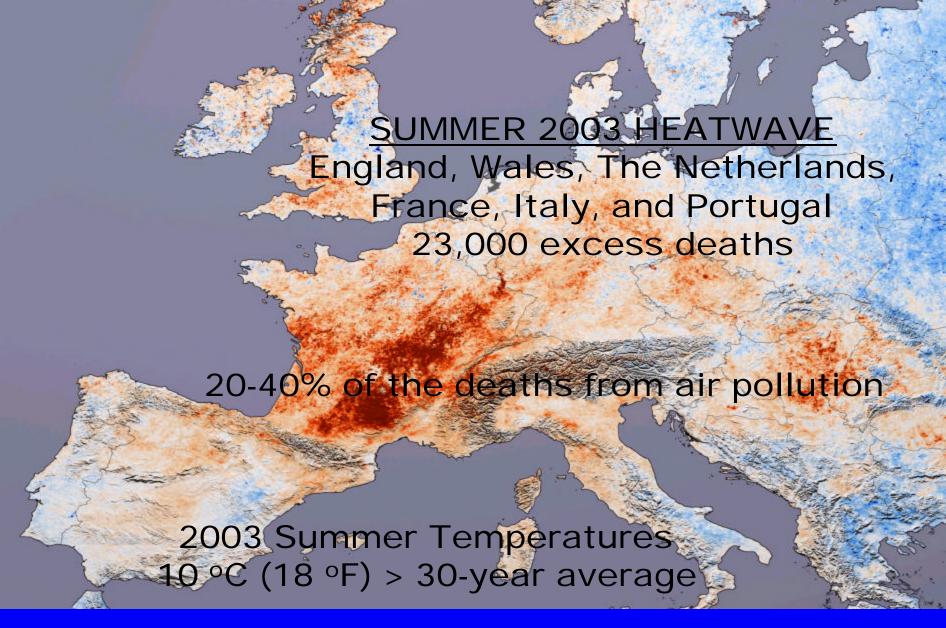
Climate Change

Asthma Attacks
Other Respiratory Illnesses
Premature Death from Heart
and Lung Diseases



Source: Harvard Medical School (2004)

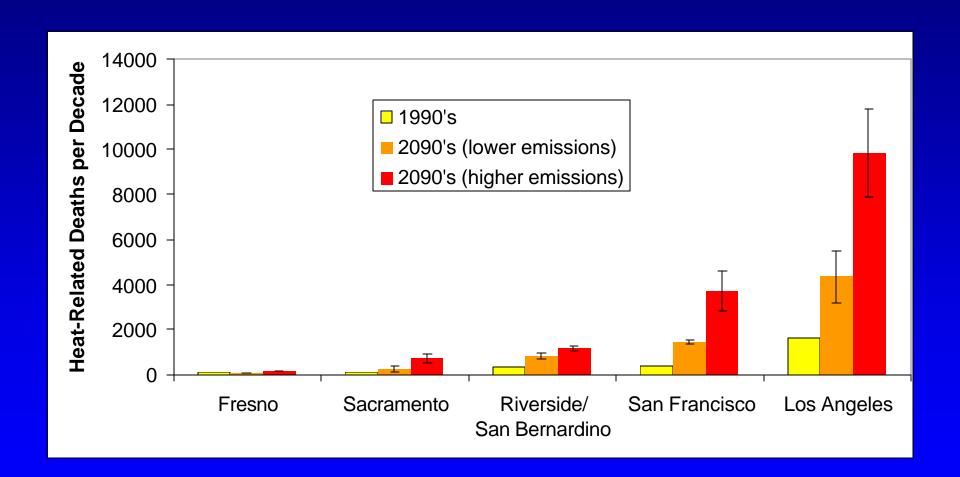
Heat-related Deaths
Injuries from Extreme
Weather Events
Allergies
Infectious Diseases





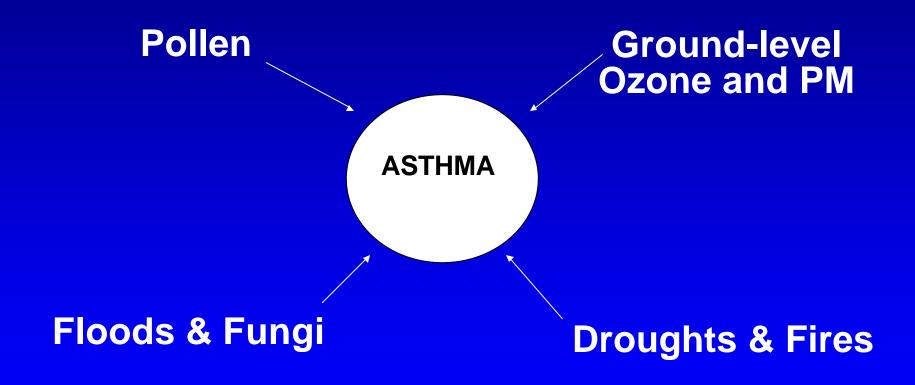
Sources: World Health Organization (2004), NASA (map), Atmos. Environ., **38:** 1083-1085; 1087-1090 (2004)

Projected Deaths from Heatwaves





Asthma and Climate Change





Source: Harvard Medical School (2004)

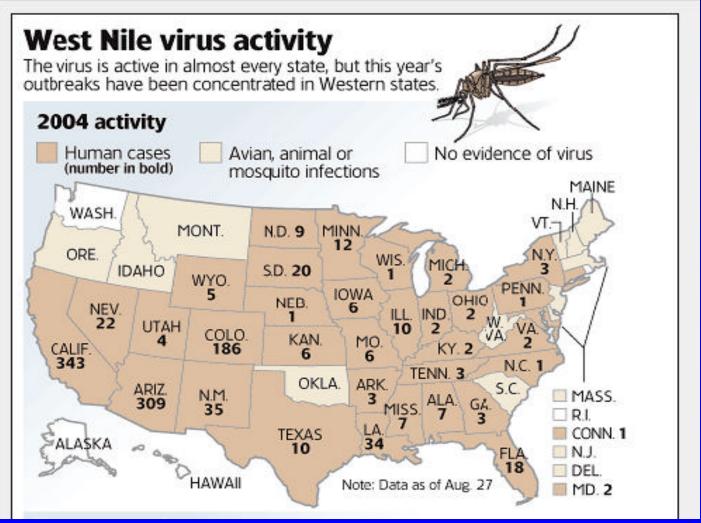
Ragweed and Climate Change

- Drought favors colonization
- Pollen increases
 with CO₂
- Common allergen in Eastern U.S.





A Case Study: West Nile Virus





Source: Centers for Disease Control (2004)

Environmental Justiceand Climate Change

- At greater risk to heatwave mortality
- More asthma attacks



Conclusions

- Climate change impacts
 - Heatwave-related deaths
 - -Increased asthma effects
 - -Increased allergen production
 - -Increased infectious disease
 - -Poor, minorities more affected

